

STANDARD INSPECTION REPORT OF A GAS OPERATOR FIELD AUDIT

FIELD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 5/26/2015, 5/27/2015	Man Days: 2
Inspection Unit: Effingham	
Location of Audit: Effingham, Mason, Dieterich, Montrose, Teutopolis	
Exit Meeting Contact: Kevin Glaspy	
Inspection Type: Standard Inspection - Field Audit	
Pipeline Safety Representative(s): Aaron McElravy	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

Headquarters Address Information:	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
Official or Mayor's Name:	Ron Pate Phone#: (217) 424-6518 Email:	
Inspection Contact(s)	Title	Phone No.
Kevin Glaspy	Quality Assurance	(217) 820-4221

CUSTOMER METER & REGULATOR		Status
<u>Category Comment:</u>		
<i>The following customer meters and regulators were inspected for installation criteria, venting requirements, flooding, stress on connected piping, meter case ratings and service line valve requirements.</i>		
Location	Meter #	
St. Anthony's Hospital	#0744988	
Fourth St. & Hendelmeyer	#6227503	
705 S. Jefferson	#2223172	
401 National Avenue	#20422645	
315 W. Wernsing	#3710140	
202 W. Wernsing	#1933556	
201 W. Wernsing	#93004477	
110 W. Wernsing		
1501 S. Fourth Street	#21432619	
306 W. Wernsing		
208 W. Wernsing	#88013503	

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1407 S. Fourth Street	#2948691	
1403 S. Fourth Street		
1405 S. Fourth Street		
106 W. Eiche Avenue	#1868239	
103 W. Eiche Avenue	#30018324	
109 W. Eiche Avenue	#4127248	
208 E. Eiche Avenue	#98015236	
317 W. Wernsing	#2223775	
306 W. Wernsing	#2323498	

[192.353(a)]	Is the customer meter and regulator installed in a readily accessible location and protected from corrosion and other damage, including if installed outside a building, vehicular damage that may be anticipated?	Satisfactory
[192.355(b)(1)]	Is the customer regulator vent rain and insect resistant?	Satisfactory
[192.355(b)(2)]	Is the customer regulator vent located where gas from the vent escapes freely into the atmosphere and away from building openings?	Satisfactory
[192.355(b)(3)]	Is the vent protected from damage caused by submergence in areas of flooding?	Satisfactory
[192.357(a)]	Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping?	Satisfactory
[192.357(d)]	Is a customer regulator that might release gas vented to the outside atmosphere?	Satisfactory
[192.359(a)]	Is the meter operating pressure within the allowable limits of the meter case rating?	Satisfactory
[192.365(a)]	Is the service line valve upstream of the regulator or meter?	Satisfactory
[192.365(c)]	Is the underground service line valve located in a curb box or standpipe that allows for ready operation?	Satisfactory

General Comment:

Staff inspected an underground service line valve located at the Central Elementary School on Rt. 45 in Effingham IL.

[192.727(d)][192.727(d)]	When service to the customer has been discontinued has the proper method been utilized to prevent unauthorized usage?	Satisfactory
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General Comment:

Staff verified two service orders for recent disconnection, the following locations were checked to ensure locking devices were installed to prevent unauthorized usage.

705 S. Jefferson (Meter #2223172)
401 National Avenue (Meter #20422645)

CATHODIC PROTECTION	Status
[192.463(a)]	Is the applicable cathodic protection criteria contained in Appendix D of this part being followed?
	Satisfactory

General Comment:

Staff discovered three low cathodic protection levels during the audit, Staff opened issues for 1407, 1403, and 1405 S. Fourth Street in Effingham IL. Additional

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readings listed below were determined to be adequate at this time.

[192.465(a)]	Were pipe to soil readings taken?	Satisfactory
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General Comment:

Pipe to soil readings were obtained at the following locations during the audit.

Location	Reading
Pressure Station ID #340075	-1.237volts
Pressure Station ID #340008	-1.190volts (Inlet)
Pressure Station ID #340008	-1.186volts (Outlet)
Pressure Station ID #340054	-1.400volts (Inlet)
Pressure Station ID #340054	-1.277volts (Outlet)
Pressure Station ID #340014	-1.375volts (Inlet)
Pressure Station ID #340014	-1.056volts (Outlet)
Pressure Station ID #340021	-1.053volts (Inlet)
Pressure Station ID #340021	-1.217volts (Outlet)
2050th & Rt. 45 (Dist. Main)	-1.285volts
315 W. Wernsing	-1.521volts
202 W. Wernsing	-1.175volts
201 W. Wernsing	-1.440volts
1501 S. Fourth Street	-1.348volts
208 W. Wernsing	-1.043volts
306 W. Wernsing	-1.070Volts

[192.465(b)]	Were rectifier installations inspected?	Not Applicable
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General Comment:

The Ameren Effingham inspection unit does not operate or maintain a rectifier.

[192.465(a)]	Were isolated mains/services tested?	Satisfactory
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General Comment:

Pipe to soil readings were obtained from the isolated services listed below.

Location	Meter #	Reading
1003 Wenthe	#20422523	-1.146volts
1019 Wenthe	#750672	-1.131volts
1008 Wenthe	#98016315	-1.125volts

[192.465(c)]	Were critical/non critical bonds tested?	Satisfactory
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General Comment:

The Ameren Effingham inspection unit contains one critical bond with Marathon Pipeline, the following readings were obtained during the audit.

Test Point ID #34040027 (-2.732volts / .11amps)

[192.467(a)]	Is electrical isolation provided by use of insulated meter spud, valve, union, or flange?	Satisfactory
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General Comment:

All facilities listed as a result of this audit contained the required isolation devices.

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[192.467(c)]	Were casings installations tested for electrical isolation?	Satisfactory										
<u>General Comment:</u> <i>Casings were inspected at the following locations for electrical isolation.</i>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Location</th> <th>Readings</th> </tr> </thead> <tbody> <tr> <td>Test Point #14107</td> <td>(Casing) -.702volts</td> </tr> <tr> <td>Test Point #14108</td> <td>(Pipe) -1.098volts</td> </tr> <tr> <td>Main & Rt. 37</td> <td>(Casing) -1.257volts</td> </tr> <tr> <td>Main & Rt. 37</td> <td>(Pipe) -1.372volts</td> </tr> </tbody> </table>			Location	Readings	Test Point #14107	(Casing) -.702volts	Test Point #14108	(Pipe) -1.098volts	Main & Rt. 37	(Casing) -1.257volts	Main & Rt. 37	(Pipe) -1.372volts
Location	Readings											
Test Point #14107	(Casing) -.702volts											
Test Point #14108	(Pipe) -1.098volts											
Main & Rt. 37	(Casing) -1.257volts											
Main & Rt. 37	(Pipe) -1.372volts											
[192.479(a)]	Is the above ground piping coated or painted as required?	Satisfactory										
<u>General Comment:</u> <i>All facilities listed as a result of this audit contained the required coatings and were free from corrosion or pitting.</i>												
[192.479(c)]	Is the pipeline free of corrosion or pitting?	Satisfactory										
<u>General Comment:</u> <i>All facilities listed as a result of this audit contained the required coatings and were free from corrosion or pitting.</i>												
DAMAGE PREVENTION		Status										
[192.614]	Does the operator have a valid notification of planned excavation activities?	Satisfactory										
<u>General Comment:</u> <i>Staff field verified two locates during the field audit. The following locate notifications were checked for completion, accuracy and the correct markings.</i> 316 Austin Avenue #X001402055 605 Gordon Avenue #X001420992												
[265.40(a)]	Did the operator complete the locating activities in the specified timeframe?	Satisfactory										
[192.614(c)(5)]	Were temporary markings made in accordance with the operator's Operation and Maintenance Manual?	Satisfactory										
[192.707(a)(1)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located at each crossing of a public road and railroad?	Satisfactory										
<u>General Comment:</u> <i>Line Markers were checked at the following locations during the field audit for placement and labeling requirements.</i> 1600th Avenue & Moccasin Road 2100 1000th Avenue 2183 1000th Avenue 3545 E. Rt. 45 200 N. Rt. 45 Green Creek Rd & Rt. 45 200th Street & 50th Avenue 100 E. & 50th Avenue												

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200th & Rt. 37
250th & Rt. 37
2100 Rt. 40

[192.707(a)(2)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference?	Unsatisfactory
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Issue Comment:

Staff determined additional line markers were needed to adequately identify the location of the distribution main between the Take Point located at 19748 US Rt. 40 and the Montrose Town Border Station.

[192.707(c)]	Are line markers placed and maintained as close as practical over each main and transmission line located above ground?	Satisfactory
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[192.707(d)(1)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters) stroke?	Satisfactory
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[192.707(d)(2)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The name and phone number (including area code) of the operator where the operator can be reached at all times?	Satisfactory
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PRESSURE LIMITING AND REGULATING DEVICES (MECHANICAL)	Status
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Category Comment:

The following pressure limiting and regulating stations were inspected to ensure they were inspected within the required intervals, protected from dirt, liquids, or other conditions that may prevent proper operation. Staff inspected gauges, operating pressures, venting requirements and isolation devices to prevent unauthorized operation.

Station ID	Location Description
#340014	Rt. 40, East Montrose TBS
#340021	Virginia & Main
#340055	Bishop TBS
#340075	Teutopolis ETBS
#340008	W. Rt. 40
#340054	Lake Sara East
#340053	Lake Sara West

[192.739(a)(4)]	Was each pressure limiting station, relief device (except rupture discs), and pressure regulating station and its equipment subjected at intervals not exceeding 15 months, but at least once each calendar year, to inspections and tests to determine that it is properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.?	Satisfactory
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[192.317(b)]	Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes?	Satisfactory
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[192.741(a),192.741(c)]	Were telemetering and/or recording gauges inspected for abnormally high or low pressure indications?	Satisfactory
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[192.743(a)]	Is overpressure protection provided on the pipeline down stream of the take point?	Not Checked
General Comment: <i>Ameren has identified locations requiring additional protection and has devised a plan to add additional facilities downstream of the take point. Ameren is periodically providing Staff with updates regarding their progress.</i>		
[192.199(d)]	Were the pressure relief or pressure limiting devices inspected to determine if the support was made of noncombustible material?	Satisfactory
[192.199(e)]	Were the pressure relief or pressure limiting devices inspected to determine if the discharge stacks, vents, or outlet ports were designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard?	Satisfactory
[192.199(h)]	Was each valve, designed to isolate the system under protection from its source of pressure, secured to prevent unauthorized operation of any stop valve that will make the pressure relief valve or pressure limiting device inoperative?	Satisfactory
VALVE MAINTENANCE		Status
[192.747(a)]	Were the valves readily accessible and was the operator able to access the valve with the appropriate valve wrench?	Satisfactory
General Comment: <i>Distribution valves were inspected at the following locations during the field audit.</i> <i>Valve ID Location</i> <i>D-086 Dieterich TBS</i> <i>T-531 Teutopolis Gate Station</i> <i>T-530 Teutopolis Gate Station</i> <i>T-618 1600th & Moccasin Rd.</i> <i>T-617 1600th & Moccasin Rd.</i> <i>D-80 US Rt. 40</i> <i>Montrose Station TBS (Fire Valve)</i>		
ODORIZATION OF GAS		Status
[192.625(a)]	Was the odor intensity level readily detectable at or below 1/5th LEL?	Satisfactory
General Comment: <i>Staff observed two odorant readings obtained from the following locations with Heath Odorator Serial #2000806010.</i> <i>Saint Anthony Hospital / Meter #0744988 / .12% gas in air.</i> <i>Fourth & Hendelmeyer / Meter #6227503 / .18% gas in air.</i>		
[192.625(e)]	Was the Odorization equipment and tank levels inspected?	Satisfactory
General Comment: <i>Staff inspected tank levels at the following locations during the audit.</i> <i>Take Point with Trunkline (Bishop Tap) (ID #340055) Tank level 70%</i> <i>Take Point with Kinder Morgan (Teutopolis Gate Station) Tank level 60%</i>		
[192.625(f)]	Was the operator's equipment calibrated as required?	Satisfactory

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TRANSMISSION		Status
<u>Category Comment:</u> <i>The Ameren Effingham inspection unit does not contain transmission pipelines.</i>		
[192.179(b)(1)]	Are transmission valves protected from tampering or damage?	Not Applicable
[192.745(a)]	Were the valves inspected accessible?	Not Applicable
[192.719(a)]	Is pre-tested transmission pipe inventory maintained for use in an emergency?	Not Applicable
[192.179(c)]	If blow down activities were observed, were the blow down valves properly sized to allow the transmission pipeline to vent as rapidly as practicable and did the blow down vent freely to atmosphere away from any hazards?	Not Applicable
MARKING OF MATERIAL		Status
[192.63(a)]	Does the operator's components and pipe contain the required markings?	Satisfactory
<u>General Comment:</u> <i>All components listed as a result of this audit contained the required markings.</i>		
OPERATOR QUALIFICATION		Status
Was a PHMSA Form 15 Operator Qualification Field Inspection Protocol Form completed?		No
<u>General Comment:</u> <i>Staff did not complete PHMSA Form 15 during this audit.</i>		

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